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67th Annual Meeting, Peoria, April 3, 4 & 5, 1952



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(See Page 9)



THE ILLINOIS ENGINEER, JANUARY, 1952—VOLUME XXVIII, NO. 1

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Affiliated with the National Society of Professional Engineers

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Resolutions

J. L. Howie, Chairman, E. E. Cooper, F. H. Persson, F. D. Ellis, C. W. Goepfert, E. D. Middaugh, J. D. Voorhees.

Registration Laws

Charles Debes, Chairman, J. A. Moore, W. E. Deuchler, J. R. Gardner, Alois Graf, R. G. Kenyon, L. S. Kraus, Arthur Lee, C. W. Lyons, C. F. Manion, D. R. Miller, W. J. Putnam, L. S. Pappmeier, C. E. Rogers, R. G. Thomas, E. J. Wade.

State Building Code

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State Engineering Employees

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U. S. G. S. Mapping

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Of Professional Interest

Every man owes some of his time to the up-building of the profession to which he belongs.

—Theodore Roosevelt

THE ILLINOIS ENGINEER—THIS MONTH

We are running a series of cover pictures on the *ILLINOIS ENGINEER* illustrating the work of an engineering nature being done by the various departments, divisions or agencies of the State Government. On the October issue, we used a bridge picture from the Division of Highways and we used a picture of a field investigation unit from the Department of Public Health on the November issue. This month's cover picture illustrates one phase of the work of the Illinois State Water Survey. Cover pictures from other state engineering agencies will appear from time to time in the future. A short covering story accompanies each photograph.

See, also, Mr. Van Praag's address presented before the students and faculty of the College of Engineering, University of Illinois. While the paper was prepared primarily for young engineers, the ideas presented would seem to be of interest to all engineers.

EDITOR.

VOX SECRETARII

P. E. Roberts, Assistant Secretary

Last Will and Testament of the Year 1951

Being of sound mind and in full control of my mental capacities, it is my desire to dispose of my tenure, domination, interest, title, heritage and any baggage impedimenta which are now vested in me. I do therefore order the following bequests, to-wit:

Item: I bestow upon the 1952 Officers of the Illinois Society the leadership to guide the Society in successful paths.

Item: I grant unto the Board of Direction the wisdom to carry forward and extend the traditions of the Illinois Society.

Item: I confer upon the Chapter Officers the power to make each chapter the focal point of interest of all engineers within its chapter area.

Item: I assign unto young engineers the courage and aggressiveness to propose and promote new ideas for the good of mankind and the Society.

Item: I invest in all Committee Chairmen and Members the capacity and the ability to do their work for the common good and for the benefit of the Society.

Item: I divest all of those belonging to the Illinois Society of sloth, of procrastination, and of dilatoriness if any exists.

Item: I endow upon all engineers the foresight and the sagacity to bring UNITY many steps closer to reality during 1952.

All of this I do willingly and without compulsion. So may it be, therefore witness my hand and seal:

[Seal] Grandfather Time 1951

PRESIDENT'S MESSAGE

President Virgil E. Gunlock, like many of the rest of us, has been having his troubles multiplied several times this year because of the record snowfall in Chicago.

Between City Council meetings, Traffic meetings and Civil Defense meetings plus taking care of an abnormal amount of business as Commissioner of Superhighways and Subways, Mr. Gunlock did not find the time to write his usual message. He asked me to convey for him his best wishes for a Most Prosperous and Happy New Year for all of those belonging to the Illinois Society of Professional Engineers.

P. E. ROBERTS, Assistant Secretary

PRESIDENT GUNLOCK APPOINTS NEW CENTENNIAL COMMITTEE

Because its assignment has been completed, President Gunlock discharged the old Engineering Centennial Committee and appointed a new one to take its place. The new committee is made up as follows: George L. DeMent, chairman, C. A. Walls, H. F. Sommerschild, John Dolio, Frank W. Edwards and Russell Gibbs. All are located in Chicago except Mr. Gibbs who is located in Peoria.

The new committee will make the necessary preparations for the participation of the N. S. P. E. and the I. S. P. E. in the Centennial of Engineering to be held in Chicago during 1952.

L. D. GAYTON DIES

As we go to press, we have word of the sudden death following a heart attack of Past President Loran D. Gayton at his home in Chicago. A more complete story of Mr. Gayton's activity in the Illinois Society will appear in the February issue.

COST OF LIVING INDEX

The correction factor to be applied to the I. S. P. E. Schedule of Minimum Fees and Salaries was 189.3 for November, 1951. The factor is based upon the U. S. Department of Labor's most recent Consumer Price Index.

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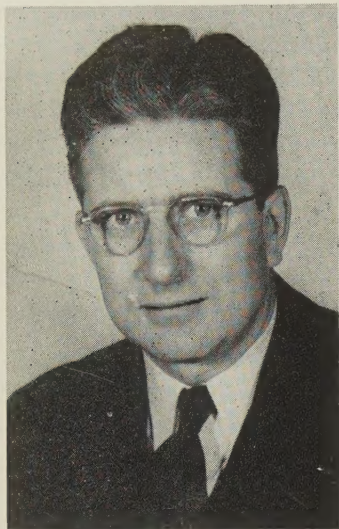
SUBSCRIPTION RATES

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F. W. EDWARDS CENTENNIAL MANAGER

Professor Frank W. Edwards has taken a year's leave of absence from the Illinois Institute of Technology to act as General Manager of the Centennial of Engineering. Major Lenox R. Lohr is Centennial President.

Plans for the Centennial, which is to be held in Chicago during 1952, are rapidly taking shape. With the objective of making the Centennial a means of awakening the public to all that engineering has meant not only in industry, but in every other sphere of physical progress over the past century, the entire celebration will be presented in terms readily comprehensible to the average layman. Each subject will be developed with appreciation of its social and economic aspects and its dramatic appeal.



Frank W. Edwards

The exposition, which will be installed in the Museum of Science and Industry, will supplement with new engineering exhibits what is widely recognized as the world's finest collection in the fields of science, engineering and industry. Special committees have been appointed in the major engineering societies to advise as to appropriate exhibits. The exposition will be opened to the public in July, 1952, free of charge and will remain for at least five years.

The role of engineering in building a better world will be dramatically unfolded in a pageant, to be presented during the entire summer in the 1,000-seat theatre in the Museum of Science and Industry. A cast of more than 150 actors will depict engineering episodes and developments that have contributed greatly to human progress. The scenes will be chosen on the basis of their dramatic appeal from more than 100 such events now under consideration.

The National Society of Professional Engineers and the Illinois Society will hold a one-day meeting during the Engineering Convocation which will be held during the period September 3 to 13, 1952.

EXAMINATION SCHEDULE

The State of Illinois Department of Registration and Education has announced the following engineering examination schedule for 1952: Professional Engineer—May 22 and 23, 1952; November 25 and 26, 1952. Structural Engineer—January 24 and 25, 1952 (oral only); March 17, 18, 19, and 20, 1952 (oral and written); June 5 and 6, 1952 (oral only); September 23, 24, 25, and 26, 1952 (oral and written).

Application blanks for admittance to the above exam-

inations may be obtained from the Director of the Department of Registration and Education, Springfield, Illinois. In the past applications for the Professional Examination were required to be on file sixty days prior to the date of the examination and structural applications were required to be on file thirty days prior to the examination. Engineers who desire to take either examination should obtain the application blanks at once and place them on file well in advance of the scheduled date of the examination. Some of the data required takes time to prepare.

ITEMS OF PERSONAL INTEREST

William B. (Brad) Russell, president of Kewanee Boiler Company, Kewanee, has been appointed a member of the committee authorized by the Boiler Inspection Act which was passed by the last Illinois General Assembly. Mr. Russell is a member of Kewanee Chapter.

Louis and Harold Pappmeier, Galesburg, suffered serious injuries in an automobile accident the first week in November. Harold's car skidded on a patch of ice damaging the car badly. Louis came out of the wreck with a broken leg and Harold had some 17 stitches in his head. Both men are on the mend although Louis is doing his work in an office set up in his home.

Edward Quirk, a member of Kewanee Chapter and, before he retired, advertising manager of Kewanee Boiler, is spending the holidays visiting in his home country, England. After retiring, Mr. Quirk opened a consulting business in Kewanee.

Mack Kinch, a member of Champaign County Chapter, went through a siege with his heart during November. Mack is back on part-time duty again and looks as fit as ever to the casual observer.

C. Dale Greffe, one of the hardest working engineers in the M. E. Department at the U. of I., spends his spare time in photography. Dale's Christmas card is a work of art and has a most professional look. Besides his work in Champaign County Chapter, Dale is also an officer in the Camera Club.

Secretary and Mrs. Babbitt left Champaign-Urbana just ahead of the bad weather to spend the holidays in Florida.

The winter Board of Direction meeting will be held in Chicago, February 9th.

The Chapter Officers Conference will be held on Saturday, February 2nd. Chapter officers are voting on their preference as to where the meeting will be held.

LADIES' AUXILIARY HOLDS CHARTER NIGHT IN DECATUR

The Ladies' Auxiliary of the Central Illinois Chapter held its Charter Night meeting on January 8th. The ladies furnished a pot luck supper and the men were invited as guests. The program for the evening included the signing of the charter and the installation of officers.

Engineering - A Challenge Unlimited, Responsibilities, Too

By ALEX VAN PRAAG, JR.

Warren & Van Praag, Inc., Consulting Engineers, Decatur, Illinois

(Address presented before the Annual Convocation of Students and Faculty, College of Engineering, University of Illinois.)

Introduction

I am most grateful for the opportunity of addressing you today. My appreciation is greater than ordinary because you have invited me to return to my own alma mater and to address a gathering of engineers. Truly, this is an honor.

The honor carries with it certain responsibilities and I am not unmindful of those responsibilities. If you fail to recognize the responsibilities to which I refer, think only of the admonition of your chairman that I must conclude my remarks in a thirty-minute period, and recall that I am asked to discuss the engineer's place in society and in industry, and I am asked to tell you how engineers can improve their services to society and to industry. Rather a substantial assignment, is it not?

It is with considerable difficulty that one, under such circumstances, selects from a maze of ideas and a maze of experiences a few fundamental ideas or points or principles upon which he wishes to elaborate. This has been my predicament. Naturally, one leans heavily on his own past experiences in an occasion of this kind, for the past frequently offers a clue to the future.

As I look at my relatively short-lived career, and I think of the University of Illinois and its College of Engineering, I am reminded that I have had the honor and privilege of knowing intimately four Deans of the College of Engineering. They are: Dean Talbot, Dean Ketchum, Dean Enger and Dean Everitt. For each of these men I have had the greatest respect and admiration. The acquaintanceship and personal friendship of these men of eminence has been an inspiration to me. In recalling their acquaintanceship I am, also, reminded that I am no longer a young man! This is the penalty of having enjoyed them as my intimate friends.

Some Reflections

It was my privilege to address an engineering student gathering at this university about three years ago. At that time I advised the assembly of the great opportunities that lay before the young men in the engineering profession who were about to graduate. I recalled some of the past history of the profession and I prophesied some of the future problems that would face that group and which will also face your group in the years to come. May I, with an apology to any of those present who may have heard me previously, recall some of those earlier remarks?

I recall pointing out to the assembly the unsettled conditions which faced our nation and the men of the engineering profession at the time of my graduation in June 1917. I pointed out that in those troubled times, European nations had been at war for some three years and that our nation was then on the verge of entering World

War I, and did so before my graduation. I pointed out the relatively low ebb of employment and the prevailing salary offerings of \$50 to \$75 per month for engineering graduates. I pointed out the fears and uncertainty and the apprehensions concerning the opportunity for success that were then bedeviling the young engineer.

At the same time, I pointed out that the world was full of opportunity though we had been inclined to dim our visions and not see far enough into the future or to look forward with clear minds and clear sight. I pointed out the tremendous developments which have occurred in my short lifetime in practically every field of endeavor, citing the rapid and substantial advances in transportation, communication, industry, commerce, research, medicine and many of the other related professions and sciences. I cautioned then that one in the profession of engineering must have confidence in the future and he must recognize both his opportunities and his responsibilities.

What I said to that assembly some three years ago is, in many ways, unchanged today. I would that the time would allow me to repeat many of the detailed statements I made. Time is proving the accuracy of my statements.

The Present Picture

Today we face a world in even greater confusion. We are at war in Korea. We are told that we are on the verge of World War III, a terrifying thought. We are told that mankind's very existence is at stake.

The seriousness of this situation is called to my attention very forcibly by the fact that I have two sons, and only two sons. One recently withdrew from this university where he was studying architecture and is presently in a Navy school for specialized training. The other is in the Army and is in Japan awaiting being sent, doubtless to Korea.

While we are involved in a national confusion of the highest order, we are also involved in a period of the greatest uncertainties with respect to our professional lives. We are plagued with uncertainties which seem to dwarf the uncertainties of the past. Yet, we find industry working at top speed and our nation producing more in the form of goods than at any previous time in our history. We have, coincident with this magnified production, a shortage of professional, skilled, and even common labor. We are establishing the greatest research organizations yet known to man. We are told that all of our advances in technology and science are to be dwarfed by the further development—not for war but for peace—of our atomic discoveries.

What of all this, and what am I leading to? Just this. This world of ours and its scientific and technological de-

velopments move forward at ever-accelerating speeds. Each succeeding generation faces problems which seem more difficult of solution, of greater magnitude, and more terrifying. Yet, as we look back at the past, were not the same difficulties in the same magnitudes and equally terrifying, facing each of our past generations and were not the solution of the problems of the age the result, at least in part, of the contributions of Engineering to the social order? I think this was and is the case. I think, further, that there is a considerable similarity of the problems of one period to another and we may well conclude that an educated people in an aggressive forward-looking nation will never reach a time of sustained certainty, security, freedom from worry and freedom from want. I will go further—I will say that we do not want such a period or such a condition to prevail for then we will be truly a decadent and dying nation.

I am a firm believer that we have the finest nation in the world. We have the finest people in the world. We have people capable of the greatest advancements in science and in technology. We have the ability in our way of life to enjoy nature's gifts to the fullest. We should then accept our great responsibilities in participating in this fast-moving and confused world with cheerful willingness.

We should be proud and happy that we live in this age in spite of our doubts, quarrels, and apprehensions. There is no better world. There is no better place to live. Why, then, do we not lend our thoughts and energies to improving our status, and why do we not open our minds and our hearts to enjoy our wonderful opportunities? As we do so, why do we not accept our responsibilities, proud that we are among those privileged to solve the problems of our age? This is the part of the engineer in our society and in industry. We need to see our challenge and our opportunities. We need to think and to work for accomplishment. We must not accept fear, apprehension and defeatism as inescapable.

Some Words of Caution

I believe that my mission here today would not be fulfilled if I did not leave with you a few cautions or suggestions which grow out of ideas and experiences that I have witnessed.

All too frequently young men, just leaving the university, have sought employment in our organization and in so doing have expressed themselves as seeking permanent employment and security. I can truthfully say that permanent employment and security are not what you want at this early stage in your life and in your professional careers. Permanent employment and security are not compatible with useful professional lives. They suggest no individual initiative. They suggest no individuality. They suggest only a fear of one's own lack of ability to be of valuable service to an employer, to offer the employer new ideas, or to be alert to changing conditions. If you are seeking permanence and security at this stage of your life, you are asking to be buried or

placed in a position of inferior rank and you are admitting that you do not expect to go anywhere. You might just as well be a common laborer. He does need security. You do not. You should want to be placed in positions of trust and confidence where you can develop your individual skill to the utmost. This requires broad and varying experiences and an ever-broadening of your vision with originality of ideas.

I have observed that many young men entering upon their professional careers are immediately concerned with vacation periods, hours of work, and privileges granted by the employer, generally as rewards for long and faithful service. They want to know at the outset of seeking employment of matters which immediately brand the individuals as those who are as much concerned with "how not to work" as they are with "how to work." There has unfortunately grown in this nation in recent years, probably as a result of our nation's swing to a more and more national socialized economy, a belief among our people that the nation or the world owes the individual a living. This is most unfortunate. Your nation owes you only an opportunity to work and to succeed. What you make of the opportunity is the important matter. Your nation or no one else owes you a living.

You can render your profession and society a valuable service in the future if you will lend your energy toward effecting a truly unified profession of engineering. We of the engineering profession have permitted ourselves in the past to follow too closely our respective specialized technical branch of engineering and consequently we have well organized, magnificently performing, technical engineering societies. We have not in the past given sufficient recognition to the necessity of developing an over-all unified organization of professional engineers with primary interest directed to improving the professional, social, and economic welfare of the professional engineer. Therefore, I say to you, you can render the profession a distinct service in seeking to bring about a more unified profession. As you do so you will also be rendering society a distinct service. Bear in mind that any organization, whatever be its aims or objectives or size or force in the world, will only succeed when it recognizes that "service to society" is a paramount requisite.

You will find an opportunity in your life to render public service. Do not shrink from this opportunity. Make it a point in your life to render service to mankind without expectation of compensation. Your reward will come in other ways, for example, through lifetime friendships upon which no adequate value can be placed. Public service can be rendered in many ways. Opportunity for such service is present in civic groups, in aid to charitable organizations, and—yes—in serving in public official capacities and in participation in political effort. Last, but certainly not least, your participation in church and religious activities is to be urged and

(Continued on page 6)

Chicago Chapter News

H. F. SOMMERSCHIELD, Editor
33 West Grand Avenue
Chicago, Illinois

Annual Meeting

Twenty-five members of the chapter attended the annual meeting at the Electric Club, December 4. Mr. C. A. Walls, chairman of the nominating committee, presented the following slate to serve as officers for 1952:

Frank W. Edwards—President
John Dolio—Vice President
K. C. Hoeglund—Secretary-Treasurer

No further nominations were offered from the floor. President George DeMent received a motion that the proposed slate be unanimously elected. The motion duly carried.

The program for the evening consisted of the showing of several colored slides. Views of Italy, Alps, Smokies, Rockies, and Grater Lake were shown. Photography was the handiwork of George DeMent, Harold Hawkins, R. A. Lonier, C. J. McLean, William Swinyard, and C. A. Walls. Those who were not present missed a real treat.

Membership

Harold Sommerschield, chairman of the membership committee during 1951 wishes to extend his thanks to all members of the chapter for their effort in the "every member get a member" campaign. He urges continued effort to enlist members. The Voice of our Society is as loud as the number of members we possess.

1952 Committees

President Frank W. Edwards has appointed the following committee chairmen for 1952:

Attendance—John Fensterle of Addison Heat Engineering Co.
Audit—Theodore Olson, Illinois State Highway Department
Budget—John Dolio, Partner, Shaw Metz & Dolio
Centennial—George DeMent, Dept. of Subways and Superhighways
Constitution—K. C. Hoeglund, Plant Development Engineer, Bauer & Black
Program—Chester A. Arents, Coordinator of Research, Illinois Institute of Technology
Public Relations—H. F. Sommerschield, Portland Cement Association

Henry T. Heald Testimonial Dinner

Chicago chapters and sections of all engineering societies will honor Dr. Henry T. Heald at a testimonial dinner in the Sherman Hotel Ballroom January 21. Chicago Chapter ISPE members will attend this dinner which will serve as the January meeting of the chapter.

1952 Meetings

The Executive Committee elected to try the second Thursday of each month for Chicago Chapter ISPE

meeting night during 1952. Meetings will be held in a private dining room at Western Society of Engineers, 84 E. Randolph St. Western Society of Engineers will also take over the responsibility of sending meeting notices to the members.

Centennial

The ISPE and NSPE will hold a joint banquet during the Centennial of Engineering Convocation on the evening of September 5. State President Virgil Gunlock has appointed George DeMent as chairman of the Centennial Banquet Committee. Mr. DeMent will be assisted by Frank W. Edwards, C. A. Walls, John Dolio, and H. F. Sommerschield.

President Edwards

Chapter President F. W. Edwards addressed the Pittsburgh Chapter of PSPE December 20 on the subject "Human Wellbeing Through Engineered Progress." Mr. Edwards appeared as the General Manager of Centennial of Engineering, Inc.

EDWARDS PRESIDENT OF CHICAGO CHAPTER

Frank W. Edwards, director of the department of civil engineering, Illinois Institute of Technology, and general manager for Centennial of Engineering, 1952, was elected president of the Chicago Chapter, Illinois Society of Professional Engineers, at the annual meeting in the Electric Club December 4.

Other officers elected were: John Dolio, partner, Shaw Metz and Dolio, architects and engineers, as vice-president, and K. C. Hoeglund, plant development engineer, Bauer & Black Company, as secretary-treasurer. Harold F. Sommerschield, structural engineer, Portland Cement Association, was elected Chapter Representative to the State Society last year for a two-year term.

COOPERATION

"It ain't the guns, nor armament,
Nor funds that they can pay,
But the close cooperation that
Makes them win the day.
It ain't the individuals, nor
The army as a whole,
But the everlasting team work
Of every bloomin' soul."

—Kipling

67th Annual Meeting

April 3, 4 and 5, 1952

Hotel Pere Marquette, Peoria

(Continued from page 4)

commended. All of these activities are best suited to an engineer. Busy though you are, or as you think you are, you will never be too busy to render your fair share of such services.

Lastly, and in closing, I want to urge upon each of you to develop good personal characteristics. Honesty and integrity are absolute necessities to successful careers. You should be honest and sincere in your individual endeavors but never forget to hold your fellow men in high regard. You should learn to work with others. Your initiative, courage, and ambition must never be at the expense of another. You should give credit to others where credit is due. These are certainly qualities which you can develop and each of which will in turn help to develop your own individual character. While you develop these characteristics, bear always in mind that there is no quality quite like a good and clean sense of humor to relieve the strain of work.

These few precautions are but a suggestion of the many, many ways you as young engineers may improve, not only yourselves, but your value and usefulness to society. Time prevents my citing and elaborating on many more.

Conclusion

I do not wish to close my remarks without paying honor to those who have today been especially honored by receiving awards, commendation, or honorable mention on this day of engineering convocation services. May you carry with you ever the honor which is your just due. May you carry with it a wholesome respect for the excellent and untiring staff of the College of Engineering which has helped you to obtain your education. As you pursue your professional careers you will appreciate more and more how truly excellent has been your instruction under such capable leadership.

My personal congratulations to you and to the engineering staff of the university.

News From Chapters

Capital Chapter

Twenty-four members were present at "The Mill" for a dinner and business meeting of August 28, 1951. New members attending for the first time were Charles Merchant and W. E. Hanson. A rising vote of thanks was given the EIT's for the fine meeting they conducted in July. Brief reports were made by Leonard Crawford, Chapter Representative; Harry Cordes, Membership Chairman; and Cecil Chenoweth, Program Chairman. Jim Williams reported that the Civic Affairs Committee are installing "soot" cans in eight different locations, and that the pollen count has had cooperation by the newspapers, radio and weather bureau and considerable interest has been aroused as evidenced by numerous telephone calls received. A progress report will be submitted in November.

President Hudson announced the appointment of Harry Beams on the circulation committee. The Constitution committee reported recommending that Paragraph 2, Article IV of the Chapter Constitution remain "as is." A petition was presented to revise Article VI, Paragraph 2 of the Chapter Constitution which applies to the date of newly elected officers taking office.

President Hudson submitted his resignation as Chapter President in order to attend the University of Michigan Graduate School in Public Health Administration. Verne's letter of resignation summarized the work of the chapter for the year and restated our aims and objectives.

A motion was made by William Russell that a resolution be drawn by the secretary expressing the chapter's appreciation for "Verne's" efforts on behalf of the chapter and the profession.

Meeting was adjourned at 8:35 p.m. and was followed by a movie and social hour.

On September 25, 1951, after a steak dinner at "The Mill," Veep Art Kessel called the 22 members and guests to order at 7:45 p.m. Walter Marquardt was first given the floor and presented the chapter with a cast aluminum plaque with the chapter's name in the center and ISPE and NSPE shield on each side.

Committee reports followed, M. R. Golly reporting for Civic Affairs Chairman J. Williams, requesting that hay fever reports be turned in. Soot cans have been placed in eight different locations and paint panels are being placed. Dave Abbott reported that the City Planning project has been sidetracked for the present. J. P. Murphy reported that the Civil Defense committee is also at a standstill for the present, but is ready to carry on again as soon as the local authorities resume activity. A lively discussion of the Civil Defense project was made by several of the members. A brief explanation of the proposed changes in the State Constitution was made by Chapter Representative Leonard Crawford. Harry Cordes reported that the membership committee has a new prospect list available for the members to use.

The next meeting will be on October 30th at Lincoln Park Pavilion and C. Chenoweth announced that the speaker will be from the Illinois Central Railroad. The question of meeting nights interfering with the course on Soils Foundation was referred to the Executive Committee for solution. Mr. R. Golly suggested that a special meeting be held for honoring local past state presidents and older members.

A resolution was introduced changing the Chapter Constitution in regard to date of officers taking office.

Motion made by J. P. Murphy that proposed changes be adopted, seconded by M. R. Golly. Motion carried unanimously.

Verne Hudson's resignation was next presented to the chapter for action. Truman Flatt moved that the resignation not be accepted, the motion being seconded by Harry Cordes. Motion was carried unanimously.

A resolution was introduced and passed unanimously to be sent to President Hudson, expressing the chapter's appreciation for the work he has performed for us. Walter Marquardt suggested that a special meeting of the Executive Committee be held with the EIT's and Junior members to select a candidate for representative on the State Board of Direction.

No further business arising, meeting adjourned at 9:00 p.m.

On November 26, 1951, Capital Chapter honored its two chapter members, Mr. W. B. Walraven and Mr. C. M. Slaymaker who are ISPE Past Presidents, together with the old timers of the chapter that have belonged for 25 years or more, with a dinner at the Lincoln Park Pavilion.

Vice-President A. D. Spicer, acting for President Gunlock, presented certificates to our two Past Presidents in a very able manner. Mr. O. W. Terry received Mr. Slaymaker's, as he was unable to be present due to illness.

Guests of the chapter were Secretary Babbitt, Assistant Secretary Roberts, and Professor Oliver, all of whom delivered appropriate short talks. Professor Babbitt gave a most interesting short history of ISPE and Capital Chapter.

After a short break, the business meeting convened with the reading of communications by the secretary. A very interesting letter from Edgar E. Schock was received, thanking the chapter for sending him the "Chatter" for the past year.

Nominating Committee Chairman Harry Cordes presented the list of candidates for chapter offices for the year 1952 as follows: President—Dave Abbott, Leslie F. Ryburn; Vice President—J. Collamore, W. E. Hanson, Carl Thunman; Secretary—H. L. Brantley, William Honsa, Charles Merchant; Treasurer—M. R. Golly, Harry Graham, Otis Terry.

It was moved by Truman L. Flatt and seconded by S. Sibley that the chapter amendment as approved by the Board of Direction be adopted. Motion carried unanimously. This amendment changes the chapter constitution to read so that incoming officers will take office at the close of the chapter's annual meeting.

Chapter Representative Crawford's typed report on the November 3rd Board of Directors' meeting was passed to all present in his absence. A discussion of what action the Chapter should take in regard to the Society publishing a yearbook brought out a lot of various opinions. One motion was defeated, one motion was made, amended, amendments withdrawn, and finally all motions pending on the floor were moved to be tabled and

a vote taken on all six measures as presented by the Board of Direction. This resulted in a tie between proposition one and three, and upon another vote, the Chapter went on record as approving plan number three, which provides that the information be published in the ILLINOIS ENGINEER.

Mr. W. B. Walraven moved that the chapter go on record as favoring the idea of publication of a yearbook containing a membership roster, code of ethics, and revised constitution. Motion carried.

No further business arising, meeting adjourned at 9:40 p.m.

Twenty-nine members met at the Lincoln Park Pavilion for a dinner and annual business meeting on December 17, 1951, enjoying a very delicious swiss steak dinner.

At 7:35 the business meeting started with committee reports—all of them showing that a great amount of time, effort, and thought has been going on by Capital Chapter members during the past year.

Outside of the chapter meetings, one of the outstanding activities of the year, the legislative meeting in May, was reported on by the legislative committee chairman, William Russell, and it was recommended that plans be made in 1952 for a similar or enlarged meeting to be held in 1953. A motion was made by Mr. Russell and seconded by Walter Marquardt that plans for a legislative meeting in 1953 be made during the year, and that all other chapters and ISPE be invited to participate in the meeting. Motion carried unanimously.

Another important activity was reported on by Civic Affairs Chairman James D. Williams, who gave a complete story of the air pollution study being carried on in Springfield. Pollen counts have been taken during the hay fever season and are being tabulated and correlated with reports of hay fever sufferers. Soot cans are located throughout the city and the deposits in these are being compared. Paint panels, slides for collecting deposit at windows, visibility readings, pictures of smoke stacks, etc., are all part of the study being made. This work will have to be carried on for a longer period in order to have enough basic facts for a complete report on conditions in Springfield.

James P. Murphy presented a report on the work completed by the Civil Defense committee, showing that the chapter had its part of the program well under way, but this effort was partially lost due to the entire program for the area being at a standstill. A motion was made and carried that the chapter continue its efforts in assisting in this activity.

Reports of the auditing, circulation, membership, program, publications and refresher course committees all gave complete details of their activities and results.

After committee reports, election of officers for 1952 was held, Leslie F. Ryburn being elected president; Carl Thunman, vice-president; Charles H. Merchant, secretary; and M. R. Golly, treasurer.

A report on the year's activities was presented by

each retiring officer, who in turn introduced his successor.

Under new business, Dave Abbott made a motion, seconded by J. Williams, that a letter be written to the City Council protesting the abandonment of the city landfill method of garbage disposal and that we cooperate with other civic organizations in having this system resumed. Motion carried unanimously. A general discussion of engineers becoming more actively engaged in civic affairs brought out many interesting comments. Meeting adjourned at 10:05 p.m.

LESLIE F. RYBURN, *Secretary*

Joliet Chapter

The Joliet Engineers' Club held its regular meeting at Little Jack's Restaurant on December 18, 1951. This meeting was our first Ladies' Night affair which we hope to make an annual one in the future. The wife of our president, Mrs. William S. Gray, took charge of the meeting and a call to order was made at 8:00. Mr. W. K. Waltz presented the treasurer's report and the wife of the secretary and program chairman, Mrs. William S. Chaney, read the minutes of the previous month's meeting which were accepted as read.

The meeting was attended by 51 members and guests.

The program chairman then presented Mr. and Mrs. Warren Kirby of the Joliet Township High School who showed us some very interesting films both still and movies of their trip to Old Mexico, along with showing us some costumes. A very interesting program based on our neighbor to the south was enjoyed by everyone.

The meeting was adjourned at 9:45 p.m.

WILLIAM S. CHANEY, *Secretary*

Illinois Valley Chapter

The Illinois Valley Chapter of the Illinois Society of Professional Engineers held a dinner meeting on November 27, 1951, at the Riverside Inn, with Mr. J. B. Moran, president, presiding.

Along with the 30 members attending, there were 10 guests, including Mayor Philip J. Bailey, Fire Chief Emmett Burke, Commissioner O. P. Walker, W. T. Rippey of Libbey-Owens Ford, J. E. C. Valentin, and La Clair Perkins of Bakelite.

A short business meeting was held at which Mr. P. E. Roberts, Assistant Secretary of the State Chapter, gave some humorous incidents, and our Director, Mr. Frank Dunavan, presented a paper covering the Board of Direction meeting in regard to the publishing of the year-book. Six different plans were presented to the chapter for financing the project and plan number six was adopted.

After the short business session, Mr. Virgil E. Gunlock, State President of the Illinois Society of Professional Engineers, was presented. He is Commissioner of Subways and Super Highways in Chicago and Co-Di-

rector of Civil Defense for Chicago. He outlined the Civil Defense Program of Chicago, plus the plan to be followed by surrounding communities in case of a disaster. He said that cooperation is needed from the surrounding communities to make Chicago's plan effective.

Mayor Bailey spoke briefly, telling the group that he presented to the State Civil Defense Committee an outline of facilities available in Ottawa under the Civil Defense Program.

E. DEAN ANTROBUS, *Secretary*

Ambraw Chapter

The regular meeting of the Ambraw Chapter of the Illinois Society of Professional Engineers was held at the Legion Home in Newton, Illinois, on September 26, 1951, with President B. P. Johnson presiding.

Dinner was served at 7:00 p.m. and the meeting called to order at 8:00 p.m. Twenty members and four guests were present.

A discussion was held on the forming of a Ladies Auxiliary to the Ambraw Chapter of the ISPE. Upon taking a vote this motion failed to carry.

This was followed by a talk by Mr. D. R. Connor, chairman of the membership committee, relative to the acquiring of new members for the society.

Mr. Carl Wiley, chairman of the ethics and practice committee opened a discussion on the chapter adopting some standard form of engineering contract. President Johnson appointed four members, Mr. Hardwick, Mr. Organ, and Mr. Marbry to assist Mr. Wiley, in this undertaking.

The next meeting being the annual meeting, election of officers for the year 1952 will be held.

There being no more business the meeting was turned over to Mr. H. K. Dalbow, chairman of the program committee, who introduced Mr. R. H. Major, District Engineer of District No. 7, Division of Highways, Effingham, Illinois. Mr. Major gave some interesting highlights of his army career in Iran and told of some of the interesting customs found there.

JOHN A. HARDWICK, *Secretary*

DuKane Chapter

Minutes of the Regular Meeting Held on Dec. 20, 1951

It turned out to be a very snowy and stormy night, but 39 members and guests turned out for a delicious baked chicken dinner at the Red Lion Inn. The occasion was "Ladies Night" and installation of officers.

Following the introduction of guests, President Bate-man called the meeting to order and immediately called on Past President Cash to conduct the ceremonies in the absence of Mr. P. E. Roberts who had been scheduled to do the honors, but was unable to attend. Installed were: Douglas E. Dreier, president; W. A. Rakow, vice president; George M. Booth, Jr., secretary-treasurer. Although still enjoying tenure of office, Chapter Representative Rob Roy also participated in the installation.

President-elect Dreier made a few remarks about the coming year and announced his committee appointments.

Past President Bateman complimented the ladies for their cooperation, and asked for their continued support in aiding their husbands in keeping active in professional circles.

Carl Kienzle, Elgin's own big game hunter, presented his popular colored movies and lecture on his recent African expedition, and it was a very short two hours, indeed.

Engineer John F. Bateman, who so ably served as chapter president during the past year, has been transferred to Rock Island by the Illinois Bell Telephone Company, and he is now at home at 1855 41st Street, Rock Island. We wish John all the luck in the world, but certainly hate to lose his active participation in chapter activities.

GEORGE M. BOOTH, JR., *Secretary*

Central Illinois Chapter

The Central Illinois Chapter enjoyed a good program by three of our own members who spoke of their engineering experiences as follows: J. R. Castle, Illinois Power Co., "Trials and Tribulations of a Load Dispatcher"; R. J. Wood, Mississippi Valley Structural Steel, "Highlights of Current Research in Structural Steel"; C. F. Gebhardt, A. E. Staley Mfg. Co., "Why Engineers?"

During the discussions which followed, the trouble of the Power Company with high tension lines during ice and wind storms proved to be of considerable interest. The meeting was held at the Staley Club House with 35 members and guests in attendance.

President Herman Dorn presented a question for discussion regarding the type of meeting preferred by most of the members, whether we prefer to meet with or without a dinner before the program. Motion was made and carried that the secretary prepare a letter with return card to get an expression from the local members.

Announcement was made that Howard Bold is in the Campbell Clinic, Room 313, Memphis, Tenn., and we were asked to write to him. We hope that he will be back with us again soon.

The nominating committee for presenting a slate of officers at the next meeting was appointed as follows: W. G. Scherer, chairman; J. A. Askren, and J. R. Gardner. The new officers will be elected in December.

The organization meeting of our Ladies Auxiliary was held on November 19, and officers were elected. Charter night and installation of officers will be held on Tuesday evening, January 8. Notice of this meeting will appear in our December "Whispers."

A number of suggestions were brought out on our annual Boy's Night program which has become an important part of our activities. Motion was made by E. W. Lowe that a committee be appointed to make a thorough study of our Boy's Night meeting and report. Motion was seconded and carried, and the committee

appointed as follows: H. A. Meinert, chairman; J. A. Askren, E. W. Lowe, and R. E. Schwartz.

Our chapter representative, J. A. Gardner, gave us his report from the State Board meeting on the possible issue of a State Membership Directory. The cost may run from \$1,500 to \$1,800. The method of raising the money by the sale of advertising was discussed at length. Motion was made by C. F. Gebhardt and amended by J. A. Askren that we support the issue of the State Directory. Motion was lost by a vote of 20 to 11. Mr. Gardner will report this action to the State Board of Direction.

F. E. TROXEL, *Secretary*

COVER PICTURE

This month's cover picture shows personnel of the Illinois State Water Survey Division and the City of Bloomington engaged in a sedimentation survey of Lake Bloomington. J. B. Stall, Assistant Engineer of the Water Survey, holds the six-foot, machined-steel "spud" bar which is used to measure the water depth and the thickness of the sediment or "silt" deposits on the lake bottom. Ted Warburton and Fred Craig of the Bloomington Water and Light Department keep notes and row the boat, respectively.

Lake Bloomington, the municipal water supply source, was completed in 1929; this 1948 survey showed that the original storage capacity of 2.2 billion gallons had been reduced by 8.9 per cent in 19 years. This lake survey was conducted by the State Water Survey as part of their statewide research program on the problems of reservoir sedimentation.

In the background is shown the attractive water treatment plant. This lake and waterworks was designed by J. J. Woltman of Bloomington and was described in the article "Bloomington's New Water Supply" appearing in the November, 1929, issue of the ILLINOIS ENGINEER.

N.S.P.E. LEGISLATIVE BULLETIN

Social Security and the Consultant

Consulting Engineers, particularly those over 50 years of age, will want to re-examine their potential place in the current Social Security picture. As a general rule, except for members of professional groups, such as doctors, lawyers, and professional engineers, the present Social Security law has been extended to cover self-employed persons, who are individual proprietors, or members of a partnership. Most employed persons are already covered without regard to the nature and scope of their work, or the total amount of salary they receive. Officers of a corporation, for example, are specifically defined as employees for the purpose of the law.

Before much more time has elapsed, a very considerable number of older people will find that, after having contributed to the system for a comparatively short time, they have become eligible for a substantial pension. It is conceivable that a person not now in covered employment might find it greatly to his advantage to modify his

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status to occupy a covered position. Here is a possible case in point:

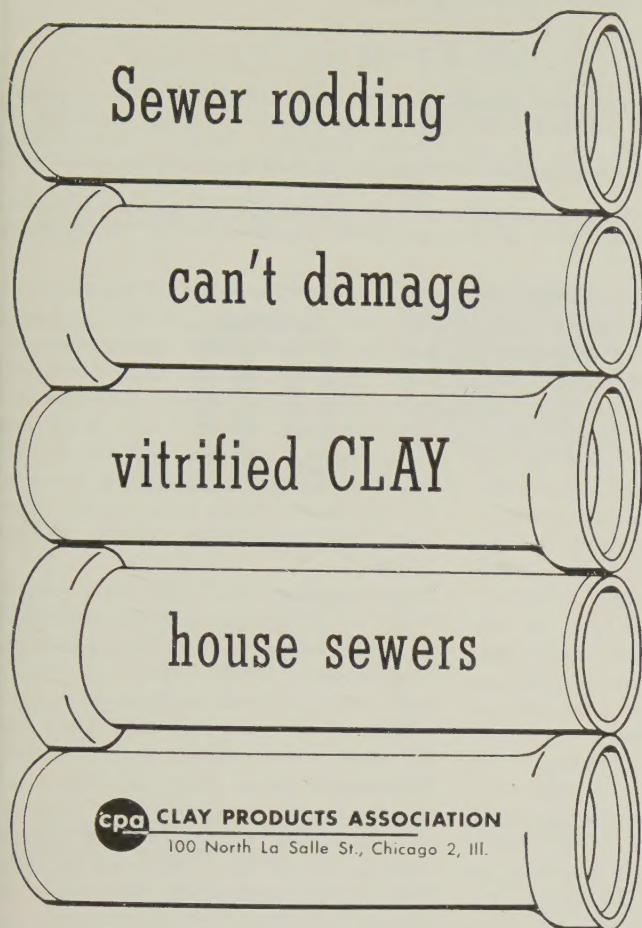
A self-employed consulting engineer, who, because he is self-employed and a professional is not eligible to come under Social Security, is now 65 years of age. He gives up his consulting practice as of January 1, 1952, and goes to work at a salary of \$300.00 or more per month. As an employed person he then becomes part of the Social Security scheme. He plans to work as an employee for 18 months. During that time he will have contributed 1½% of his salary (up to \$3600 per year) to the Social Security Fund, for a total of \$81.00. His employer, of course, will have contributed a like amount. On July 1, 1953, at age 67, the engineer retires and is then eligible for a life-time tax-free pension for himself, and, when she reaches age 65, for his wife. In addition, other benefits are acquired—the right to a lump sum death payment, and certain rights for dependent children. Using the example cited, the engineer will have \$62.00 per month for himself, and \$31.00 per month for his wife, the equivalent of annuities worth approximately \$17,000. The figures will vary, of course, depending upon the circumstances involved, but as of now, it is

believed that self-employed consultants will wish to examine the possibilities under the law as it exists.

Because of the method of computation of the months of coverage, which establish the amount of the benefit, this picture will change rapidly in years to come. The possibilities will never again be so favorable under the law as it now is written.

One additional factor has a decided bearing on the problem. As a general rule, a recipient of Social Security benefits, between the ages of 65 and 75, may not earn over \$50.00 per month without losing all or a substantial part of his benefits. This is not true for self-employed professionals, including professional engineers, when the income is from the practice of the profession. In other words, the engineer from the example above may, if he so desires, set up a consulting practice upon his retirement, and income from this source will not prejudice his right to benefits. Having once established these rights he will be able to draw them regardless of any income from his self-employed professional practice.

Every Social Security claim will, of course be judged on its merits and on the facts of the case. Before making any decided change local officials of the Social Security



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Administration should be consulted concerning eligible jobs and self-employment arrangements.

Amendments to the United States Public Health Service Law

The impact which certain bills introduced into the National Congress may have on the engineering profession is sometimes obvious, sometimes not. An example of this latter class of bills is S. 1320, a measure relating to the rank and compensation of the Chief Dental Officer of the U. S. Public Health Service. The bill, passed by both House and Senate, and now awaiting presidential signature, provides that the Chief Dental Officer, while serving as such, shall have the rank and pay of his Army counterpart—a major general.

Further investigation disclosed that historically the Chief Dental Officer and the Chief Engineering Officer acquired status as Assistant Surgeons General together, and that they both ranked as brigadier generals. Additional investigation indicated that the duties and responsibilities of the Chief Engineering Officer were at least as important and extensive as those of the Chief Dental Officer, and that as a matter of fact there are more professional engineers than dentists in the Service. Testimony by the Surgeon General pointed out the important and expanding engineering aspects of the public health field.

The dental profession appears to have been largely responsible for the effort to gain deserved recognition

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for the profession of dentistry thus emphasizing its importance. N.S.P.E., feeling that the engineering profession, through the incumbent Chief Engineer, was equally deserving of recognition, presented the case for the engineer to the Senate subcommittee on Health.

This testimony, favorably received by the subcommittee, brought about S. 2297, a bill written by the Public Health Service at the suggestion of the subcommittee. Introduced October 18th by Senator Lehman for himself and Senators Humphrey and Murray, the bill will provide statutory recognition for both the dentists and the engineers. Its early passage is confidently looked for.

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POSITIONS AVAILABLE

Designer—heating and ventilating. Grad. Engr. Exp.: 8 years in civil, mech., or arch. 4 years of heating, ventilating, planning and design. Knowledge: Current heating and ventilating developments. Duties: Undertake heating and ventilating investigations or development work, carry out heating and ventilating assignments. Make computations, check drawings or computations—direct drafting for design of heating and ventilating systems. Must have Prof. Engrs. or Reg. Arch. License in N. Y. state or equiv. Company will pay fee and help on moving expenses. Salary: Up to \$154/week. Location: New York. T-8448(e)

Recent Grad. Mech or Civil. Graduate. Duties: Perform ordinary calculations and minor engineering tasks. Assist engineering design or research projects. Will do some drafting work. Perform other related work. Must be alert and good analytical ability, judgment and initiative. Company will pay placement fee and help on moving expenses. For a consulting firm. Salary: \$70 to \$85 per week. Loc.: New York. T-8448(f)

Works Manager to assume direction of all activities other than sales and financing for mfg. div. specializing in screw machine products. **Production Manager** (b) with heavy machine shop exp. to expand facilities from 500 to 800 man plant. **Production Supt.** (c) capable of assuming responsibility for production of screw machine products in above plant. Age: Open. (a) \$16,000 to \$20,000; (b & c) \$9,000-\$10,000. Location: Midwest. T-8449

Designers and Draftsmen, M.E. Age: Up to 50. None or some exp. in drafting or designing textile, plastics, collendering, or packaging machinery. Duties: Designing or drafting work on above mentioned equipment. Salary: \$3600-\$5200/year. Location: Chicago. R-8450

Recent Graduate, M.E. Age: up to 38. None or some years exp. drafting or designing automotive or engine products. Duties: Developing new products such as mufflers or silencing equipment. Company will negotiate fee. Salary: \$325-\$450/mo. Location: N. W. Chicago suburb. R-8451

Recent Graduate, B.S. Chemistry. Duties: Laboratory work for meat packing house. Salary: Open. Location: Chicago. R-8452

Field Engineer, Recent Grad., C.E. Age: up to 30. 0-3 years exp. in field surveying. Duties: Field Engineering in Ohio, surveying and running lines for an engineering firm. Will negotiate the fee. Salary: \$85-\$95/week. Location: Chicago. R-8454

Recent Graduate, M.E. or I.E. 0-2 year exp. drafting, design or processing on cutting tools. Duties: Training for methods or processing for manufacturer of cutting tools. May be some board work. Salary: \$2.00/hour. Location: Chicago. R-8455

Production Engineer, M.E. Chem. or E.E. Age: up to 30. Up to 2 years' exp. in management, industrial or mechanical work. Duties: Training for top executive position with large printing company. Salary: \$5000-\$6000/year. Location: Chicago. R-8456

Recent Graduate, C.E. Age: up to 30. Duties: Training in real estate management department for appraisal or maintenance supervisory and management work. For an educational institution. Employer may pay fee. Salary: \$300/month. Location: Chicago suburb or negotiate fee. R-8457

Recent Graduate, Chemistry. Recent graduate interested in laboratory work. Duties: Training in laboratory work for large oil company. Salary: \$325.00 per month. Location: Calumet District. R-8458

MEN AVAILABLE

Research and Design, M.S. 24. Seventeen mos. design and develop. new products and improve present ones, involving layouts and detail drawings and follow through on initial models. Sixteen mos. teaching Power laboratory courses. \$6500 Midwest. 239PE

Design Engineer, M.E. 30. Seven yrs. experience in design of bulk materials handling facilities including structural engineering. Prefer Midwest or East. \$6900. 240PE

Chief Engineer. 45. Thirteen yrs. chief engr. in charge of engr. dept., general engineering, production design, machine design, design of process equip. on metal, rubber, textiles, administration, production problems, and management. Material handling and plant maintenance. Two yrs. process engr., plant modernization, process machine design, package machine design, material handling, plant layout. Eight yrs. machine designer on conveyors, methods, special machines. \$8000 Midwest. 241PE

Chief Industrial Engr. Ind. Psy. 36. Six yrs. chief industrial engr. setting and evaluating piece work rates, maintaining time standards, labor cost, control, send out estimates and quotation. Three yrs. time study engr. setting and evaluating piece work rates. Two yrs. office manager, purchase all materials necessary for operation of experimental laboratory. \$700 Chicago. 242PE

Plant Engineer, M.E. 28. Three mos. plant engr. responsible for the maintenance and

repair of plant property and equipment, design and development of new equipment, methods and procedures, maintenance of a wage incentive system, plant accounting procedures, and purchasing. Seventeen mos. industrial engr. selection and development of procedures, controls, methods in office departments, shipping, receiving, plant layout of conveyor systems, and layout of new plants and departments. \$6000. Midwest. 243PE

Plant Engineer, M.E. 29. Five yrs. Sr. Engr. supervisor, general plant engineering, coke manufacture, construction, administration, personnel safety. Three yrs. development work, test and development work on vacuum cleaners and airplane heaters while attending school. \$6000. Chicago. 244PE

Metallurgist. Chem. Engr. 45. Twenty-four yrs. plant metallurgist and chem. supervisor of heat treating, ferrous materials. 25 men, treating over ½ million lbs. work per month, head of Met. and Chem. Lab. three employees, technical advisor to production departments, and engr. personnel. Nine yrs. instructor in Metallurgy, evening division courses metallography and heat treating. \$9000. Midwest. 245PE

Pharmaceutical Chemist. Mag. Pharm. 37. Three yrs. and four mos. analytical chemist, lab., and teaching. Four yrs. assistant professor, Univ. of Latvia. \$4000. Midwest. 246PE

Development Engineer, M.E. 26. Three mos. development engr., assistant to chief plastic molding engineer. East or So. East. \$3600. 247PE

Constr. Supt. 30. Two yrs. general office, estimating, purchasing, controlling jobs from office, customer and architect contact man. Four and one-half yrs., constr. supt. on jobs in the midwest and eastern states. One yr. and one half field engr. Midwest \$8400. 248PE

Designer, M.E. 30. One yr. and one half drafting work, drawing of parts for transmission and frame of farm tractors. \$4800 Chicago. 249PE

Consultant, M.E. 28. Two yrs. assistant to sales mgr., inside sales correspondence, expediting orders in engineering and plant for plastics co. Training sales representatives. One yr. managing store and employees selling radios, records, TV, and photo supplies. One yr. clerical operations mgr. One yr. consultant, installed industrial relations programs in client's companies. One yr. supervised 12 girls doing technical clerical aeronautical work. \$6000. Chicago. 250PE